

## ABSTRACT

According to the present invention, a mobile radio device is provided for wirelessly transmitting data according to a GFSK method, as performed, for example, with DECT devices. The device comprises a receiver (3), a first measuring device (17) for the error rate of received data and a second measuring device (18) for the field intensity (8) during the reception of data. An evaluation unit (6) processes the measured error rate and the measured field intensity. Depending on the measured error rate and the measured field intensity, a control unit (13) adjusts the frequency swing of the GFSK method, which is utilized for wirelessly transmitting (15) the data by a transmitter (5) in the mobile radio device (16), for purposes of optimizing the transmission behavior. In order to optimize the transmission behavior, the evaluation unit (6) contains a first table (12) and a second table (14) reproducing the obtainable range or the obtainable interference immunity of the transmission (15) dependent on the selected frequency swing.

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